01/01/08

## NMFS FISHERIES OBSERVER PROGRAM CATCH ESTIMATION WORKSHEET

OBS/TRIP ID	A13012 -			
DATE LANDED mm/yy	10 / 06			
HALIL #	g			

FISHING METHOD		CATCH ESTIMA	TION ME	THOD *	* CAT	CH SHAPE, MEASUR	EMENTS & VOLUME					
Picked	1 <b>X</b>	Weighed (Actual)	)	1 0	Comm	ent and draw catch sha	ape.					
Shoveled	2	Volume to Volum	ne	2								
Deckloaded	3	Basket or Tote C	ount	3								
Conveyor System	4	Captain		4 F	Rect./s	square (L x W x D)	1 <b>X</b> L <b>7</b>	W <sub>1</sub> <b>4.50</b>		D <b>1.20</b>	$= V 37.80 \text{ ft}^3$	
Combination (commen	.) 8	Tally		5 T	Trapez	zoidal ([(W <sub>1</sub> + W <sub>2</sub> )]/2xL)	1 <b>X</b> L <b>7</b> L 2 L	W <sub>1</sub> <b>4.50</b> W <sub>1</sub>	W <sub>2</sub>	D	= Vft <sup>3</sup>	
Other (comment)	9	Visually Estimate	ed	6 T	Triang	ular (L x W / 2 x D)	3L	W		D	= Vft <sup>3</sup>	
		Cumulative Sum	Method			ar (π r² x D)	4 r			D	= Vft <sup>3</sup>	
HAUL NUMBERS WHERE Combination (comment)		8 <b>X</b>	Oval (r	$r_1 \times r_2 \times \pi \times D$ )	5r <sub>1</sub>	r <sub>2</sub>		D	= Vft <sup>3</sup>			
DECKLOADING OCCURRED Other (comme		Other (comment)	)	9C	Other/0	Combination (comment	t) 9					
	_	1 2	3 & 5									
			J U J_	A	Are me	easurements the same	as previous haul? NO 0	_X_ YES 1				
** # SUBSAMPLING	** VOL SU	BSAMPLE CONT	TAINER	** TOTAL	SUBS	SAMPLE VOLUME =	** SAMPLE WEIGHT MULTIPLIER	** PERCENT SUBSA	MPLED	Volume of Subsample	Circular Shapes	
CONTAINERS USED	Orange Ba	Basket 1_ <b>X</b> _ 1.47 ft <sup>3</sup>		# subsamp	subsample containers used x		total catch vol / total subsamp vol	atch vol / total subsamp vol (total subsamp vol / total catch )		1 Basket = 1.47 ft <sup>3</sup>	r = radius	
	Fish Tote	2	2.65 ft <sup>3</sup>	volume of	a sub	sample container		vol) x 100		2 Baskets = 2.94 ft <sup>3</sup>	r = diameter / 2	
	Other	9	ft <sup>3</sup>							3 Baskets = 4.41 ft <sup>3</sup>	r <sub>1</sub> = short radius	
12			_	_		<b>17.64</b> ft <sup>3</sup>	2.14	46.67	%	4 Baskets = 5.88 ft <sup>3</sup>	r <sub>2</sub> = long radius	
										5 Baskets = 7.35 ft <sup>3</sup>	$\pi = 3.14$	
	** SUBSA			** SUBSA	\IVII	COMMENTS						
** SPECIES	WGT (lb	s) ** SPE	CIES	WGT (lb	os)					Angular Shapes	Trapezoidal Shapes	
Chata Little	400									A = area	W <sub>1 =</sub> short width	
Skate, Little	400									V = volume	$W_2$ = long width	
Chata Tharmy	82									W = width		
Skate, Thorny	02									D = catch depth		
Skate, Winter	164					Took actua	I weights of Yellowtail Fldr,	Haddock discard	ds Atl Cod d	liscards Barndoor Si	kates Silver Hake	
Okate, Willer	104						and Longhorn Sculpin.	riadaook discart	23, Ali 00a u	iiscaras, barriacor o	rates, onver make,	
Ocean Pout	75					<b>_</b> apo, c	and Longiton Godipin					
- Coodii i Gut						Took actua	I weights of almost all kept	species, except	Haddock - us	sed basket count me	thod. See haul log.	
Crab, Jonah	45						Ibs Haddock (average weig					
0.00,00.00							lbs x 9 baskets = 639 lbs +				red basket weight).	
Am. Lobster	38							,, (	,	(	· · · · · · · · · · · · · · · · · · ·	
						Most actual	l weights based on prioritie	s (Yellowtail fldr,	Haddock, &	Atl Cod).		
Shells, NK	20							· ·	,	,		
·						Subsample	d lower priority fish and dis	scarded crustace	ans due to ti	ime constraints.		
Atl Mackerel	31					•						
						Some Spiny	y Dogfish stuck in trawl net	, tossed by crew	estimated u	ising tally method.		
Atl Herring	49					Took 20% of tally and obtained an average weight.						
_							individual Dogfish taken ra					
							6, 7, 6.5, 7, 7, 8.5, 8, 8, 7, 5,	8 lbs = 7 lbs aver	age weight			
						60	x 7 lbs each = 420 lbs					
** Required only when usi						** Required only when	using the volume to volume method.					